

Tuesday, May 19th	
start	end
[Conference venue]	
16:00	20:00
Registration Desk Opens	
18:00	20:00
Welcome Reception (Room 1)	

Wednesday, May 20th	
Program: Opening Remarks, Plenary Lecture 1&2	
start	end
[Room 1]	
8:00	
Registration Desk Opens	
8:20	9:00
Opening Ceremony incl. Round Table Panelists: Daniel Meyer, Rachid M'Saoubi, I.S. Jawahir, Joel Rech, Pedro J. Arrazola, Brigid Mullany	
9:00	9:30
Plenary Lecture 1 (Prof. Dragos Axinte)	
9:30	10:00
Plenary Lecture 2 (Mr. Nobuaki Osawa)	
10:00	10:20
Coffee Break	

Program: Technical Session 1				
start	end	[Room 1] OS1: Milling Chair:Naomichi Furushiro, Gorka Ortiz de Zarate	[Room 2] OS4: Laser machining Chair:Yuki Shimizu, Togo Shionaga	[Room 3] OS08: Modelling / Characterization / Tribology Chair:Stefania Bruschi, Yuebin Guo
10:20	10:40	3D numerical modelling of residual stresses induced in surface milling Joel Rech, Frédéric Valloirgue, Loïc Polly, Marc Raffestin	Femtosecond Laser Processing of 3D-Printed PETG for Sensor Substrates and Coating Preparation: Parameter Optimisation and Mechanical Testing Shuchen Zuo, Mohamed Hassan, Cameron Pulham, Paul Mativenga, Olivier Allegre	Cloud-Edge-Device Collaborative Architecture for Online Surface Roughness Grade Recognition of Workpieces Jiajie Shao, Zhiwen Huang, Zhuoyuan Zheng, Dianjun Fang, Jianmin Zhu
10:40	11:00	Influence of Tool Wear-Induced Changes on the Cutting Edge Microgeometry and Resulting Surface Integrity in Micromilling of AISI H11 Tool Steel Timo Platt, Malte Sobkowiak, Dirk Biermann	Ultrafast Laser Ablation on Biodegradable PLA/PCL Composite Tubes for Biomedical Application Mohit Agarwal, Alok Srivastava, Madhur Pandya, Priya Vashisth, Naresh Bhatnagar	A Single-Particle Layer Approach for Micromechanical Characterization: Nanoindentation and Fracture Analysis of Cathode Secondary Particles Andreas Mayr, Filip A. Dorau, Johannes Lindenblatt, and Rüdiger Daub
11:00	11:20	Study on the Surface Integrity and Tool Wear in Induction-Assisted Milling of γ -TiAl Alloys (Video presentation) Tao Fan, Changfeng Yao, Liang Tan, Qihui Cheng	Rapid creation of self-cleaning titanium alloy surface using laser surface texturing Dinesh Kumar S, Kishor Kumar Gajrani	High-temperature Anti-adhesion and Low-friction Performance of Planar Glassy Carbon Mold with Nanopore Arrays (Video presentation) Wanying He, Peng Yao, Qilin Wang, Dongkai Chu, Shuoshuo Qu, Chuangzhen Huang
11:20	11:40	Subsurface deformation and residual stress analysis during micromilling of Ti6Al4V using coated and uncoated tools Maria Clara Coimbra Gonçalves, Gemma Harling, Mihail Mandazhiev, Matthew Brown, Rob Alsters, Rachid M'Saoubi, Hassan Ghadbeigi	Nanometer-Scale Polishing of Diamond by Pulsed Laser Using Feedback from Interferometric Topography Measurement Yuta Teshima, Reina Yoshizaki, Yanming Zhang, Shogo Kitamura, Yangjin Kim, Kenichi Hibino, Kentaro Furuichi, Iori Watanabe, Toshihisa Hikita, Naohiko Sugita	Integrity of hard-coated titanium surfaces under simulated regolith erosion tests for space exploration Saket Kumar Gupta, Shahit Yadav, Sarvesh Kumar Mishra
11:40	12:00	Evaluation of the achievable surface topographies, dimensional and geometrical tolerances in hybrid manufacturing of PLA parts by Fused Filament Fabrication (FFF) and milling Laurent Spitaels, Valentin Dambly, Margaux Lorenzoni, Gregory Maric, Cathy Delmotte, Enrique Juste, Édouard Rivière-Lorhève, Fabrice Petit, François Ducobu	Surface Formation Mechanism study of Water Jet-Guided Laser Machining of Single-crystal Nickel-Based Alloys Tiancheng Ai, Wei Zhang, Liming Lei, Dongdong Xu, Wentao Qin, Zhirong Liao	Impact of ignition pulse voltage and acetylene gas flow on tribological and mechanical properties of hard diamond-like carbon coatings Martin Sahul, Barbora Ludrovcová, Marián Haršáni, Margita Ščasná, Martin Truchlý
12:00	14:00	Lunch Break		

Program: Technical Session 2				
start	end	[Room 1] OS1: Milling Chair:Pedro Jose Arrazola, Benjamin Kirsch	[Room 2] OS4: Laser machining Chair:Jiaqiang Dang, Mirko Sinico	[Room 3] OS08: Modelling / Characterization / Tribology Chair:Shuzo Masui, Weihai Huang
14:00	14:20	Surface Integrity and Fatigue Response of Lamellar Ti6Al4V Alloy after Cryogenic Machining Rachele Bertolini, Andrea Stramare, Alberto Campagnolo, Andrea Ghiotti, Stefania Bruschi	Material removal and surface formation mechanism in laser assisted milling of Cf/SiC Zifu Shen, Zhi Guo, Tiancheng Ai, Dongdong Xu	Influence of deposition parameters on tribo-mechanical properties of ta-C coatings: statistical approach Barbora Ludrovcová, Martin Sahul, Marián Haršáni, Margita Ščasná, Martin Truchlý, Milena Kubišová
14:20	14:40	Influence of the engagement condition on surface integrity in micromilling of cemented carbide Christoph Paul Jäckel, Nils Schmidt, Timo Platt, Nelson Filipe Lopes Dias, Wolfgang Tillmann, Dirk Biermann	Influence of laser parameters on microcracking during laser surface remelting on additively manufactured multi-material components Mugilan T, Sumit Gusain, Sarvesh Kumar Mishra	Feature-based and angular analysis for surface integrity assessment Matthias Eifler, Alexander Müller, Jörg Seewig
14:40	15:00	Surface Quality in Milling of Thin-Walled Wire Arc Additive Manufactured Inconel 718 Using Conventional and Modified Tool Geometries František Jurina, Marek Vozár, Boris Pátoprstý, Tomáš Vopát	Machining-Induced Surface Integrity of Ti-6Al-4V Produced by Selective Laser Sintering: Role of Process Parameters and Cooling Conditions Maria Rosaria Saffioti, Serafino Caruso, Giovanna Rotella, Domenico Umbrello	Diagnosing Ion Beam Cleaning Ignition Failures in PVD Processes Using Interpretable Machine Learning on Kaufman-type Ion Sources for Optical Thin-Film Coatings Alexander Weilacher, Valerius Abb, Alexander Schneider, Martin Barth, Tobias Reichenstein, Jörg Franke
15:00	15:20	Surface integrity of machined 2024-T351 aluminum: Effects of cutting tool nose geometry and targeted minimum quantity fluid(TMQLF) Trevor K. Shoemaker, C.S. Rakurty, A.K. Balaji	Microlens Generation on 4H-SiC Using In-situ Laser-assisted Diamond Cutting Yuhan Li, Wai Sze Yip, Suet To	Modeling Grain Size Evolution under Thermomechanical Loads during Machining Using a Meshless Approach Hui Liu, Pedro Henrique de Carvalho, Anna Kibreva, Markus Meurer, Thomas Bergs
15:20	15:40	Coffee Break		

start	end	[Room 1] OS1: Milling Chair:Daniel Meyer, Masao Nakagawa	[Room 2] OS4: Laser machining Chair:Reina Yoshizaki, Ryo Koike	[Room 3] OS08: Modelling / Characterization / Tribology Chair:Masaki Michihata, Hiroyuki Kodama
15:40	16:00	An Improved Johnson-Cook Model for Residual-Stress Prediction and Process Optimization in Ti-6Al-4V Milling (Video presentation) Fangjia Liu, Daiquan Wang, Dong Zhang, Xiao-Ming Zhang, Han Ding	Laser interference lithography with a spatial light modulator Nozomu Takahiro, Ryotaro Banno, Yuki Shimizu	Strain rate effect on the deformation behavior of gallium nitride during nanoindentation tests Weihai Huang, Jiwang Yan
16:00	16:20	Milling Deflection Simulation via Voxel-based Material Removal and FEA Models (Video presentation) Yuanjie Sun, Ting Yang, Dong Zhang, Xiao-Ming Zhang, Han Ding	Surface Quality and Material Response in Laser Machining of Oxide-Oxide Ceramic Matrix Composites (Video presentation) Liam Mackenzie, Mahfuz Parvin, Aneta Chrostek-Mroz, Stephen Dondieu, Sundar Marimuthu, Priyanka Ghosh	Influence of nitriding on the surface integrity of mold steel processed by shape adaptive grinding (SAG) Takahiro Kaga, Yuichi Kurane, Anthony Beaucamp
16:20	16:40	Influence of Cutting Parameters on the Induced Residual Stress Profile and Resulting Part Distortion in Peripheral Milling of Ti-6Al-4V Markus Diegel, Maurice Walther, Markus Meurer, Thomas Bergs	A Framework for Energy Efficient and Low Carbon Laser Cleaning Processes Muhammad Tajuddin Reduan, Paul Mativenga	Surface characteristics in rigid and adaptive belt grinding of Inconel 718 Ashwani Pratap, Anthony Beaucamp
16:40	17:00	Impacts of Cutting Parameters on Frictional Behaviors of the Machined Surface in Machining of TC21 Alloy (Video presentation) Yuhang Sun, Chenggang Liao, Hongguang Liu, Xin Liu, Jun Zhang, Wanhua Zhao	Fabrication of Wear-Resistant Surfaces on Ti-6Al-4V alloy by Laser-Induced Wet Surface Treatment Atsushi Ezura, Kazutoshi Katahira, Jun Komotori	Surface integrity pivoting in an integrated design and processing for high-performance manufacturing of equipment M.K. Lei, D.M. Guo
17:00	17:20	Surface and near-surface edge integrity on additively manufactured multi-material IN718-SS316L under cryogenic micro-milling Sumit Gusain, Shivam Mishra, Sarvesh Kumar Mishra	Laser-induced Surface Integrity Evolution of Amorphous Silicon (Video presentation) Huakun Zhong, Ziyuan Huang, Zhiyu Zhang, Tingting Zou, Hu Huang, Jiwang Yan, Jianjun Yang, Xuejun Zhang	Surface properties of carbon fiber reinforced PEEK composites for a long-term water absorption at high temperature and high pressure W.G. Wang, Y.P. Li, S.H. Liu, W.X. Suo, M.Q. Li, M.K. Lei

Thursday, May 21st				
Program: Plenary Lecture 3 & 4				
[Room 1]				
start	end			
8:30		Registration Desk Opens		
9:00	9:30	Plenary Lecture 3 (Prof. Brigid Mullany)		
9:30	10:00	Plenary Lecture 4 (Prof. Volker Schulze)		
10:00	10:20	Coffee Break		
Program: Technical Session 3				
start	end	[Room 1] OS1: Milling Chair:Rachid M'Saoubi, Benny C.F. Cheung	[Room 2] OS05: Additive manufacturing Chair:Frederik Zanger, Yoko Hirono	[Room 3] OS06: Mechanical surface treatment / Finishing Chair:Yusuke Kajihara, Anthony Beaucamp
10:20	10:40	Experimental and numerical analysis of surface integrity in high-speed milling of Inconel 718 with ceramic tools Necati Uçak, Marcos Ribeiro, Jose Outeiro	Surface Topography Evolution in Laser-based Directed Energy Deposition on Porous Metallic Substrates Jacques Platz, Johanna Steiner-Stark, Lars Bachert, Jan C. Aurich	Surface topography evolution in robotic electrochemical-mechanical polishing process of 316L stainless steel Sangil Han, Daniel Krzak, Mehmet Cici, Thierry André, Ferdinando Salvatore, Joël Rech
10:40	11:00	Investigation of the relation between the built-up edge formation and chip condition in dry orthogonal cutting of C45 steel (Video presentation) Ahmed Abotoor, Ramadan Hakki Namlu, Sabino Ayvar-Soberanis, David Curtis, Pete Crawforth, Sadik Engin Kilic, Paul Mativenga, Zekai Murat Kilic	Influence of different contour scanning methods in laser powder bed fusion on the machinability of additively manufactured AISi10Mg Johanna Steiner-Stark, Benjamin Kirsch, Jacques Platz, Jan C. Aurich	Numerical and experimental investigation on the effect of process parameters in machine hammer peening of AISI 4140 Zhaoyu Chen, Matthias Hettig, Jens Sölter, Daniel Meyer
11:00	11:20	Investigation into connection mark formation in titanium alloy blisk milling-grinding combined process (Video presentation) Wanqi Xu, Tingyue Bai, Guangyuan Yu, Shuai Chen, Zhitong Chen, Zhenglong Fang	Evaluation of Ti-6Al-4V laser powder metal deposition (DED-LB/p) for weld repair based on surface integrity investigations Jonas Holmberg, Ceena Joseph, Johan Fast Berglund, Peter Ottosson, Ramin Moshfegh, Stefan Karlsson, David Lindell	Influence of Cutting Edge Radius on Subsurface Work-Hardening in Machined Inconel 718 Nickel-Based Alloy Vopát Tomáš, Sahul Martin, Truchlý Martin
11:20	11:40	Process-Structure-Wetting Relationships in Milled NiTi Surfaces Nataliia Balytska, Lars Penner, Oleksiy Myronyuk, Steffen Ihlenfeldt	Surface integrity and functional performance of additively manufactured M789 maraging steel for mould applications Mirko Sinico, Jerika Lamas, Kristof Driesen, Jitka Metelkova, Selma Hansal, Michael Doppler, Jeroen Tacq, Brecht Van Hooreweder	Impact of burnishing on surface integrity of AISI 316Ti stainless steel Larissa Juliana Sirtuli, Xenia Stergiopoulou, Susanne Norgren, Volodymyr Bushlya
11:40	12:00	Effect of cutting fluid on subsurface characteristics in milling of stainless steel Takashi Matsumura, Iman Farhana Binti Juanih, Shoichi Tamura	Impact of Material Gradation and Hatching on Surface Characteristics of Functionally Graded Materials Consisting of 316L/17-4PH Manufactured via Directed Energy Deposition Lars Bachert, Jacques Platz, Jan C. Aurich	Systematic Analysis of Abrasive Media Geometry and Bond Effects on Surface and Edge Conditioning in Unguided Vibratory Finishing of WC-Co Cemented Carbides Fabian Brüssel, Peter Breuer, Sebastian Prinz, Thomas Bergs
12:00	14:00	Lunch Break		
Program: Technical Session 4				
start	end	[Room 1] OS02: Turning Chair:Takashi Matsumura, Norikazu Suzuki	[Room 2] OS05: Additive manufacturing Chair:Keisuke Nagato, Jonas Holmberg	[Room 3] OS06: Mechanical surface treatment / Finishing Chair:Kazuya Yamamura, Ryo Sato
14:00	14:20	Correlation between Residual Stresses and Deformation Depths in the Turning of DA718 Nicklas Gerhard, Marina Kemperle, Maurice Walther, Markus Meurer, Thomas Bergs	Surface integrity and defects in stainless steel-Inconel 718 bi-metal cold metal transfer wire arc additive manufacturing Joseph Betts, Ishrat Fairouz, Alborz Shokrani	Influence of Process Input Parameters on the Reproducibility of Microstructures on Stainless Steel 304 in Pulsed Electrochemical Machining Richard Petermann, Steven Nickel, Lars Berg, Pascal Clauß, Gunnar Meichsner, Matthias Hackert-Oschätzchen
14:20	14:40	Influence of the CO2 mass flow rate on the surface integrity and dimensions of cryogenically hard turned AISI 52100 Felix Grossmann, Robin Lemmens, Benjamin Kirsch, Jan C. Aurich	Laser Remelting of directed energy deposited (DED) Ti6Al4V: surface refinement, microstructural evolution, and hardness enhancement Shivam Kumar, Saket Kumar Gupta, Sarvesh Kumar Mishra	Influence of Surface Roughness on the Tribological Performance of 3D Printed CF/PEEK Gear and its Wear Mechanism Guang Cheng, Hanlin Zheng, Qingwen Dai, Marvin May, Nanya Li
14:40	15:00	Influence of machining parameters and cutting tool materials on surface layer properties and machinability in face turning of a nickel-based superalloy Lars Langenhorst, Mattis Lieder, Jens Sölter, Gregor Kappmeyer, Bernhard Karpuschewski	Late fusion for resource-efficient analysis of DED process parameters on coating characteristics Felix Finkeldey, Shiho Takemura, Motoki Nagata, Petra Wiederkehr, Yasuhiro Kakinuma	3D Measurement of Abrasive Particles and Analysis of Wear-Induced Effects on Surface Roughness in Abrasive Flow Machining Stefanie Stöckel, Frank Segel, Sophie Gröger, Eckart Uhlmann, André Rozek
15:00	15:20	Introduction of compressive residual stresses by Hammering Turning Jannik Schwalm, Volker Schulze, Frederik Zanger	A Synergistic Approach to Microstructure and Residual Stress Management Using Ultrasonic Vibrations in Laser Metal Deposition of Steel 1.4404 Mohammad Rabiey, Hélder Puga, Miodrag Prokic, Anthony Beaucamp	Wettability Analysis of Non-textured and Textured Thin-Walled Stainless Steel Tubes Fabricated using Electrochemical Micromachining Naisarg Sagathiya, Vyom Sharma, Janakarajan Ramkumar
15:20	15:40	Coffee Break		
start	end	[Room 1] OS02: Turning Chair:Joel Rech, Sandy Suet To	[Room 2] OS05: Additive manufacturing Chair:Ryo Koike, Alborz Shokrani	[Room 3] OS06: Mechanical surface treatment / Finishing Chair:Hassan Ghadbeigi, Rongyan Sun
15:40	16:00	Surface and subsurface characteristics of Ti-6Al-4V in a sequence of turning and deep rolling Nicole Mensching, Daniel Meyer	Surface Integrity in 17-4PH Binder Jetting parts subjected to Contact Fatigue testing Matheus Rubik, Guilherme Guimarães, Isabel Criscuolo, Ronnie Rego	Influence of Drag Finishing Parameters on the Uniformity of Cutting Edge Radius Along the Tool Axis for Carbide Milling Tools Boris Pátoprstý, Tomáš Vopát, František Jurina, Marek Vožár
16:00	16:20	The effect of dynamic tool engagement on tool wear and surface integrity in diamond turning of titanium alloys Jian Weng, Linhe Sun, Suet To, Wai Sze Yip	Utilizing intermediate feature value correlation for efficient parameter identification in high-speed directed energy deposition Helena Wexel, Keisuke Nagato, Frederik Zanger	Surface Integrity of Sapphire Micro-Optics Finished by Mechanical Polishing Tarlochan Singh, Brock Taylor, Bona Burlison, Anthony Beaucamp
16:20	16:40	Ultrasonic Vibration-assisted Turning of Aerospace-grade Titanium Alloy: Surface Quality Characteristics and Tool Wear Morphology (Video presentation) Sirui Yi, Liyu Wang, Songmei Yuan	The Effect of Printing Parameters and Post-Processing on Surface Roughness and Mechanical Properties of PLA and Recycled PLA Parts Fabricated by Extrusion-Based 3D Printing Emrah Güneşsu, Emre Taşoğlu, Yusuf Kaynak	Development and Applications of Magnetic Field Assisted Mass Polishing Rui Gao, Chunjin Wang, Yee Man Loh, Dawei Luo, Chi Fai Cheung, Lai Ting Ho
16:40	17:00	Comparative evaluation of linear regression and neural network models for estimating surface hardness and residual stress in turning of carbon steels Kazunori Kohara, Yasuhiro Imabeppu, Naruhiro Irino, Norikazu Suzuki	Investigation on the correlation between spatter behavior and single-track surface geometry in laser powder bed fusion Yudai Yokota, Yoshiki Sakai, Kotaro Kaneko, Keisuke Nagato	Power-based process signature for surface and form accuracy in wire EDM Yifei Guo, Yuebin Guo
17:00	18:00	Transfer		
18:00	20:00	Banquet (Hyatt Regency Yokohama)		

Friday, May 22nd				
Program: Plenary Lecture 5 & 6				
[Room 1]				
start	end			
8:30		Registration Desk Opens		
9:00	9:30	Plenary Lecture 5 (Dr. Naruhiro Irino)		
9:30	10:00	Plenary Lecture 6 (Prof. Albert Shih)		
10:00	10:20	Coffee Break		
Program: Technical Session 5				
start	end	[Room 1] OS03: Drilling / Sawing / Broaching Chair:Hayato Yoshioka, Toru Kizaki	[Room 2] OS07: Grinding / Abrasive Processes Chair:Mohammad Rabiey, Atsushi Ezura	[Room 3] OS06: Mechanical surface treatment / Finishing Chair:Albert Shih, So Ito
10:20	10:40	Comparison of MQL versus dry machining on the surface integrity and the fatigue strength of a drilled AA2024-T351 aluminium alloy Rosalinda Solis, Raphaël Lorain, Frédéric Valiorgue, Joel Rech	Surface Integrity of Ground AISI4140: A Comparison of Quenched and Tempered and Induction Hardened States Gerrit Kuhlmann, Meik Baschak, Nikolai Guba, Tobias Hüsemann, Carsten Heinzl	
10:40	11:00	How fabrication route and particle size influence the drilling response of Al-SiC metal matrix composites Eduardo Ghinatti, Rachele Bertolini, Andrea Ghiotti, Stefania Bruschi	Flow Separation Effects on Surface Integrity in Abrasive Flow Machining Eckart Uhlmann, André Rozek, Elias Berg, Sophie Gröger, Stefanie Stöckel, Sven Fiebig	Plasma-modification characteristics of OVPE GaN wafer Rongyan Sun, Tong Tao, Shigeyoshi Usami, Yuji Ohkubo, Masayuki Imanishi, Yusuke Mori, Kazuya Yamamura
11:00	11:20	Study of the impact of robot posture and trajectory compensation on the drilling quality of Al 6082 T6-GFRP stacks in robotic drilling operations Thomas Beuscart, Valentin Dambly, Edouard Rivière-Lorphèvre, Gorka Ortiz-de-Zarate, Pedro José Arrazola, François Ducobu	Investigation of Surface Integrity Changes in Multistage Grinding with Interim Thermally Induced Material Modifications Gerrit Kuhlmann, Lars Langenhorst, Matthias Knauer, Nikolai Guba, Tobias Hüsemann, Carsten Heinzl	Influence of Rheological Characteristics of Media on Surface Morphology of Additively Manufactured Tool Steels in Abrasive Flow Finishing Process. Jojode Kiran Kumar, Botta Thirupathi, Veerla Saisurendra, Mamilla Ravi Sankar
11:20	11:40	Improving surface integrity in bone sawing through trajectory optimization Han Wang, Urara Satake, Toshiyuki Enomoto	Effects of surface treatment and morphology on tensile shear strength of adhesively bonded aluminum alloy plate Shogo Takesue, Kenya Sakuma, Tatsuro Morita	Tailored Viscoelastic Media for Precision Finishing of Additively Manufactured Inconel 718. Botta Thirupathi, Jojode Kiran Kumar, Veerla Saisurendra, Mamilla Ravi Sankar
11:40	12:00		Emulsion-based Al ₂ O ₃ -nanofluids: evaluation of rheology and tribological behavior in ball-on-grinding-wheel experiments Robar Arafat, Sherif Okeil, Oliver Schömig, Gabriela Ventura Silva, Georg Garnweitner, Christoph Herrmann	Electromagnetic assisted Ultrasonic Nanocrystal Surface Modification of SS304 Yu Zhang, Bingham Huang, Yixuan Ye, Le Gao, Chang Ye
12:00	14:00	Lunch Break		
Program: Technical Session 6				
start	end	[Room 1] OS03: Drilling / Sawing / Broaching Chair:Takehiro Hayasaka, Necati Uçak	[Room 2] OS07: Grinding / Abrasive Processes Chair:Chunwei Liu, Urara Satake	[Room 3] OS06: Mechanical surface treatment / Finishing Chair:Bernhard Karpuschewski, Ashwani Pratap
14:00	14:20	High-precision laser drilling of CFRP enabled by zinc-mediated heat dissipation (Video presentation) Yongfeng Qian, Hong An, Hu Huang	Magnetic Field-Assisted Finishing Process for Ni-Ti Alloy (Nitinol) Stents Hiroyuki Matsumura, Patrick Moorhead, Hitomi Yamaguchi	Crack Suppression in V-Bending of Metal Sheets via Molecular Adsorption Tatsuya Sugihara, Yu Tobuchi, Debapriya Pinaki Mohanty, Toshiyuki Enomoto
14:20	14:40	Effects of Cutting Speed and Lubrication on Surface Topography in Broaching of 42CrMo4 Steel Cristhian M. Chingo, Gorka Ortiz-de-Zarate, Inigo Rodriguez, Mikel Etxebeste, Pedro J. Arrazola	Interactions between Superabrasives and the Workpiece in Grinding of Hardened Steel: Analysis of the Integrity of the Grinding Tool and the Workpiece utilizing Laser Spectroscopy Tountzer Tsaqkir Dereli, Monika Kipp, Gabriel Brune, Julian Herbers, Jörg Debus, Dirk Biermann	Prediction of Required Process Time for Edge Rounding in Centrifugal Barrel Finishing Yohei Hashimoto, Rika Noda, Minoru Ito, Tetsuya Yamada
14:40	15:00	Drilling induced surface integrity: surface deformation characterization Hassan Ghadbeigi, Joshua Priest, Sabino Ayvar-Soberanis, Matthew Way, Anders Liljehrn	Grind hardening in reciprocating grinding Gibin George, Dinesh Setti, Vineed Narayanan, Pramod Kuntikana	Citric Acid-Assisted Chemical Mechanical Polishing for Y ₂ O ₃ -MgO Nanocomposite Ceramics (Video presentation) Weijian Zhang, Wei Gao, Maosen Yang, Jingyuan Wang, Keyi Wu, Wule Zhu
15:00	15:20		Continuous Variable-Speed Grinding Cycles: Experimental Study on Thermal Integrity and Surface Quality David Barrenetxea, Jorge Alvarez, Maria Garcia, Leire Godino	Direct joining of hot water-treated copper and epoxy resin for improvement of semiconductor packaging Ryuichiro Hanada, Weiyang Chen, Fuminobu Kimura, Yusuke Kajihara
15:20	15:40	Coffee Break		
start	end	[Room 1] OS09: Ultraprecision machining Chair:Tatsuya Sugihara, Satoru Egawa	[Room 2] OS07: Grinding / Abrasive Processes Chair:Hitoshi Ohmori, Hitomi Yamaguchi	
15:40	16:00	Material Dependency of Water-Mediated Surface Modification in Ultra-Precision Machining Chaoyue Zhang, Jiaming Zhan, Yu Zhang, Hao Wang	Influence of the Dressing Process Parameters on the Grinding Wheel Topography and the Work Result in Double Face Grinding with Planetary Kinematics Eckart Uhlmann, Alexander Höfling	
16:00	16:20	Feasibility Study of Using Acceleration Signals for Online Monitoring of Brittle-to-Ductile Transition in Slow Tool Servo Diamond Turning of (111) CaF ₂ Single Crystal Keer Tang, Duoshun Jang, Jiwang Yan, Chunwei Liu	Form error compensation in Reaction-Induced Slurry-Assisted grinding Tatsuya Uchikawa, Yusuke Chiba, Tsuyoshi Kaku, Masahiko Fukuta, Kentaro Watanabe, Yasuhiro Kakinuma	
16:20	16:40	Preliminary study on atomic-scale smoothing of silicon using enzymatic hydrolysis machining (Video presentation) Bing Wu, Hui Deng	Fluorescence-Based On-Machine Surface Topography Measurement in Wet Grinding Processes Masaki Michihata, Saeko Fujii, Shuzo Masui, Satoru Takahashi	
16:40	17:00	Investigation of tool wear characteristic of nanopolycrystalline diamond in ultra-precision cutting of silicon Asuka Otani, Jiwang Yan	Thin-film measurement using Mirau-type coherence scanning interferometer Masaharu Hayami, Shuzo Masui, Masaki Michihata, Yoshiyuki Kawata, Tetsuji Kawakami, Hideki Morii, Satoru Takahashi	
17:00	17:20	Closing (Room 1)		